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Room 310

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Geometry database for the CBM experiment

The report presents the current status of work on the development of a geometry database for the CBM experiment. At the moment, CBM geometry is stored in ROOT format (TGeo classes) as a tree. The root element of this tree includes all the geometry of CBM and is called "Cave". The second and subsequent levels consist of CBM detectors (Pipe, MVD, STS, RICH, TRD, RPC, ECAL, PSD, Magnet) and passive systems (Field, Materials). The number of levels can be different because some detectors can be nested in others. All files are stored in a common file system and can be changed by users over time. The Geometry DB was developed to prevent such situations and to optimize the storage of various versions of CBM geometry. Within the seminar, the proposed and implemented principles for constructing the geometric database, its architecture, graphical interface and supported API will be consid.